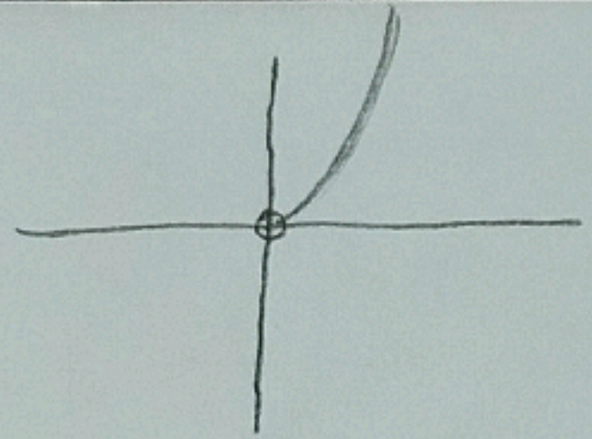
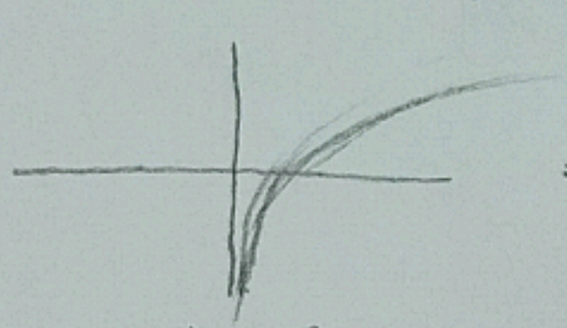
$9^{\log_3 x} \Rightarrow x^{\log_3 9} \Rightarrow x^2$

$x > 0$



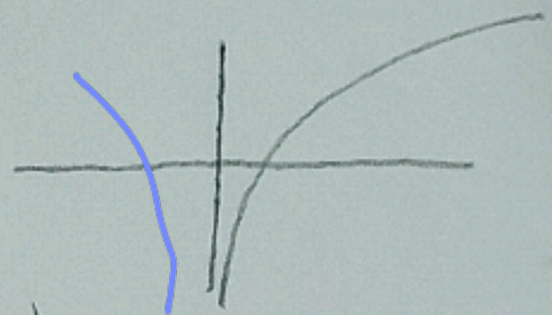
$\log x^2 \Rightarrow 2\log x$

$D = \mathbb{R} - \{0\}$



$\log x$

$\Rightarrow$



$2\log x$

نسبت ۲ برابر

۱۰۷۵

$f(x) = -2 + \left(\frac{1}{2}\right)^{ax+b}$, $v = x^2 - x$

$f(2) \Rightarrow -2 + \left(\frac{1}{2}\right)^{-2} = -2 + 8 = 6$

$x\left(\frac{8}{9}\right)^h = \frac{1}{4}x \Rightarrow \log_{\frac{8}{9}}$

$\Rightarrow h = \log_{\frac{8}{9}} \frac{1}{4}$

$-\log_{\frac{9}{8}} \frac{1}{4} \Rightarrow -\frac{1}{h} = \log_{\frac{9}{8}} 4$

$\frac{\frac{20}{24}}{\frac{144+24}{24\times 12}} = \frac{12}{28}$

$\frac{\frac{4}{24}}{\frac{12+24}{24\times 12}} = \frac{24}{28}$

$\left(\frac{7}{8}\right)^w = \frac{1}{7} \Rightarrow \log_{\frac{7}{8}}$

$w = \log_{\frac{7}{8}} \frac{1}{7}$

$-\log_{\frac{7}{8}} \frac{7}{8} \Rightarrow -\frac{1}{w} = \log_{\frac{7}{8}} \frac{7}{8} \Rightarrow \log_{\frac{7}{8}} 1 - \log_{\frac{7}{8}} 7$

$w = 8 \Rightarrow 8 \times 7 = 56$ تعداد

$100 \Rightarrow \frac{96}{100} \rightarrow x\left(\frac{96}{100}\right)^d = \frac{1}{2}x$

$d = -\log_{\frac{24}{25}} 2$

$-\frac{1}{d} = \log_{\frac{24}{25}} 2 \Rightarrow \log_2 - \log_{\frac{24}{25}}$

$-\frac{1}{d} = 2,827$

$\Rightarrow dav = 24$

$-2 + \left(\frac{1}{2}\right)^{a+b} = 0 \quad 2^{-a-b} = 2^1$

$-2 + \left(\frac{1}{2}\right)^{2a+b} = -2 \quad 2^{-2a-b} = 2^{-2}$

$a + b = -1$

$2a - b = 2$

$-a = 1 \Rightarrow a = -1$

$b = 0$

(۶)

$\log_6^2 = \frac{\log 2}{\log 6}$

(۷) $\log_5^2 + \log_5^3$

$\frac{10}{24} + \frac{10}{16}$

$\log_6^3 \quad \log_5^5$

$-\frac{1}{h} = -\frac{6}{48} \Rightarrow h = \frac{48}{6} \times 60 = 480 \text{ min}$

(۸)

$1 - \frac{1}{8}\left(\log_7^2\right)$

$-\frac{1}{8} = \frac{1 - \frac{6}{8}}{\log_3^7} = \frac{\frac{1}{16}}{\frac{10}{6}} = \frac{3}{80}$

$1 + \log_2^4 + 3\log_3^2 \Rightarrow \frac{3}{16} = \frac{30}{480}$

$\log_{10}^5 \quad \frac{100-30}{100} = \frac{70}{480}$

$\log_3^{10}$

نوژان املایی

۱۹,۵

$(a+c)b=۲$

$b+c=-\frac{۳}{۲}$

$-\frac{۱}{c}+c=-\frac{۳}{۲}$

$\frac{c^۲-۱}{c}=-\frac{۳}{۲}c \Rightarrow c^۲+\frac{۳}{۲}c-۱=۰$

$۲c^۲+۳c-۲=۰$

$(c-۱)(c+۲)=۰ \Rightarrow \frac{۱}{۲}, -۲$

$\left(۱+\frac{۳}{۲}\times\frac{۱}{۲}\right)-۲=-۲$

$a=۱-\log_c(ar-b)$

$۲=۱-\log_c -b$

$\log_c -b=-۱ \Rightarrow \frac{۱}{c}=-b$

$c=\frac{۱}{۲}$

$b=-۲$

$۱-\log_{\frac{۱}{۲}}^{-\frac{۳}{۲}-b}=۰$

$۱=\log_{\frac{۱}{۲}}^{-\frac{۳}{۲}a+۲}$

$\frac{۱}{۲}=-\frac{۳}{۲}a+۲$

$-\frac{۳}{۲}=-\frac{۳}{۲}a \Rightarrow a=۱$

$۱+c\times۳^{a+br}=f(a)$

$f(-۱)$

$b=۱$

$۱+\underbrace{c\times۳^a}_{-\frac{۱}{۳}}\times۳^{-۱}=\frac{۱}{۹}$

$\underbrace{\qquad\qquad}_{-\frac{۱}{۹}}$

$y=c+\log_a^{ax+b}$

$c+\log_a^b=۲$

$c+\log_a^{۲,۴a+b}=۰$

$-۱\cdot\times\frac{a^{-c}}{a^۲\times a^{-c}}=\frac{-۲}{a}$

$\log_۴(|x^۲-۲|-x)>۰$

$|x^۲-۲|>x$

$\cup \begin{matrix} x^۲-۲>x \\ x^۲-۲<-x \end{matrix}$

$\Rightarrow x^۲-x-۲ \quad (x+۱)(x-۲)$

$\Rightarrow x^۲+x-۲ \quad (x-۱)(x-۲)$

$(-\infty \quad -۱] \cup [-۱ \quad ۱) \cup (۲ \quad +\infty)$

$f(x)=۲^{b-ax}+۲$

$g(x)=-x^۲-۲x+۸$

$f^{-۱}(۱۰)=-۱ \qquad ۲b-a=$

$۴-۱=۳$

$۱+c\times۳^{a+b}=۲$

$۱+c\times۳^a=\frac{۷}{۳}$

$c\times۳^a=-\frac{۱}{۳}$

$۳^{a+b}=\frac{-۱}{c}$

$۱+\underbrace{c\times۳^a}_{-\frac{۱}{۳}}\times۳^b=-۱$

$\ominus۳^{-۱}\times۳^b=\ominus۳^۰$

$۳^{-۱+b}=۳^۰$

$-۱+b=۰$

$+۱$

$a^{(۲-c)}=b$

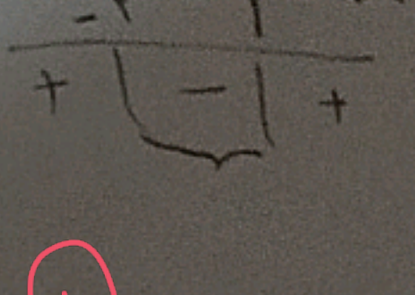
$a^۲\times a^{-c}=b$

$\omega^{-c}=۲,۴a+(a^۲\times a^{-c}) \Rightarrow \omega^{-c}-(a^۲\times a^{-c})=۲,۴a$

$\omega^{-c}(۱-۴a)=۲,۴a$

$-۱۰\times\omega^{-c}=a$

۱,۷۵



$f(x)=۲^{b-ax}+۲ \quad \{$ نزولی $\rightarrow (-\infty, ۱)$

$g(x)=-x^۲-۲x+۸$

$۲b-a=۲$

$+۲=-۱-۲+۸$

$۲b-a=۲۱$

$۲+۲b+a=۸$

$b-a=۱$

$b+a=۲$

$۲b=۴$

$b=۲$

$a=۱$